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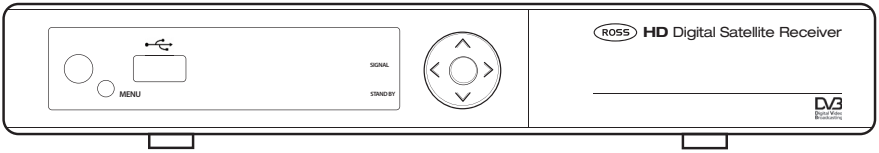

HD Digital Receiver

User Manual

MODEL NUMBER

HDR-8130USB

Please read this Manual thoroughly before using your Receiver and then retain for future reference.

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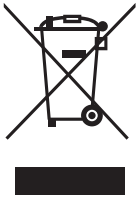
⚠1.0 Important Safety Instructions

1.1 Safety Information

- Read these Instructions carefully and retain for future reference. If you sell, or give this Receiver away be sure to pass on the Instructions.
- There are no user serviceable parts inside this unit. **DO NOT** remove the cover there are dangerous voltages inside. Electric shock hazard.
- This unit operates from a 170~240V 50Hz Supply. Consumption is ~25W.
- During use, this device may become warm, this is normal. **DO NOT** allow anything to block the ventilation slots as this may cause overheating and a consequent risk of fire.
- **DO NOT** place naked flames (such as candles) on this equipment.
- **DO NOT** stand other equipment on this unit.
- **DO NOT** operate close to heaters or other heat sources.
- **DO NOT** stand on soft furnishings.
- **MAKE SURE** there is a minimum clearance of 5cm on all sides of the unit.
- **DO NOT** allow anything to trap, pinch or otherwise damage the Power Cord. If the power cord should become damaged IMMEDIATELY switch the Receiver off at the wall and unplug it. You should then contact your Service Centre to carry out a repair.
- **DO NOT** overload the wall socket, this can be dangerous and lead to a fire hazard.
- **MAKE SURE** you have easy access to the mains plug in case of emergency
- **DO NOT** unplug the unit by pulling the Power Cord, always grasp the plug firmly and pull from the wall socket.
- **DO NOT** stand items such as water filled vases on this Receiver.
- **DO NOT** operate this unit in damp conditions or allow water or other fluids to enter the enclosure. If this happens, switch off IMMEDIATELY and refer the device to the Ross Helpline.
- **DO NOT** touch the mains plug or power cord with wet hands. Electric shock Hazard.
- **DO NOT** connect or disconnect cables from this receiver when it is turned on. Switch off the power first or this unit or other equipment may be damaged. This is most important for the cable from the Dish (LNB).
- **MAKE SURE** the LNB cable outer is earthed.
- **DO NOT** clean this device using solvent based products. Use only a soft dry cloth.

1.2 General Information

- Thank you for choosing a Ross Digital Satellite TV Receiver. Treated with care and used in accordance with the contents of this manual it will provide many years of reliable service.

- 

  This symbol indicates that, at the end of its useful life, this product must not be disposed of with normal domestic waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please recycle it responsibly. You can return your used device using the return and collection service or contact the retailer where the product was purchased. Batteries used in operating this product may contain toxic agents that are hazardous to the environment. Therefore, as with the unit itself, dispose of the batteries according to the prevailing statutory regulations. Never put the batteries in normal household waste.

- CE This receiver conforms to all applicable EU Legislation for this type of product. Further information can be obtained from Ross if required.

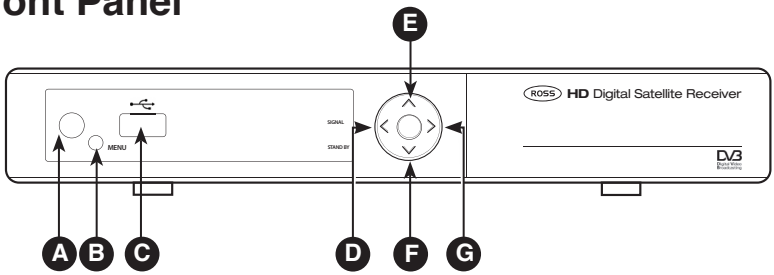
2.0 In the Box

Please open your box carefully and check the contents which should be as per the list below. If anything is missing please contact the Ross Helpline.

- **HD Satellite Receiver (Set Top Box)**
- **Remote Control (NOTE: 2 x AAA Batteries not included)**
- **User Manual**

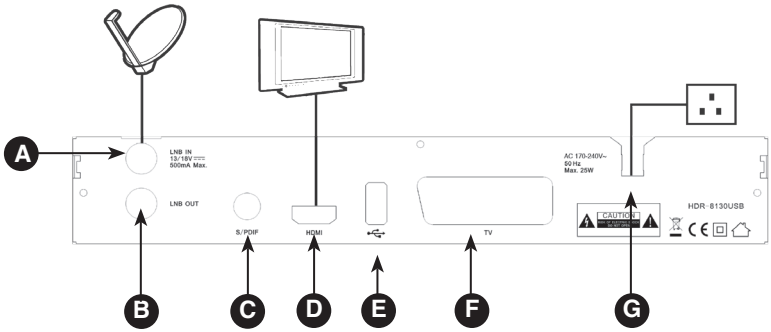
3.0 Controls & Functions:

3.1 Front Panel



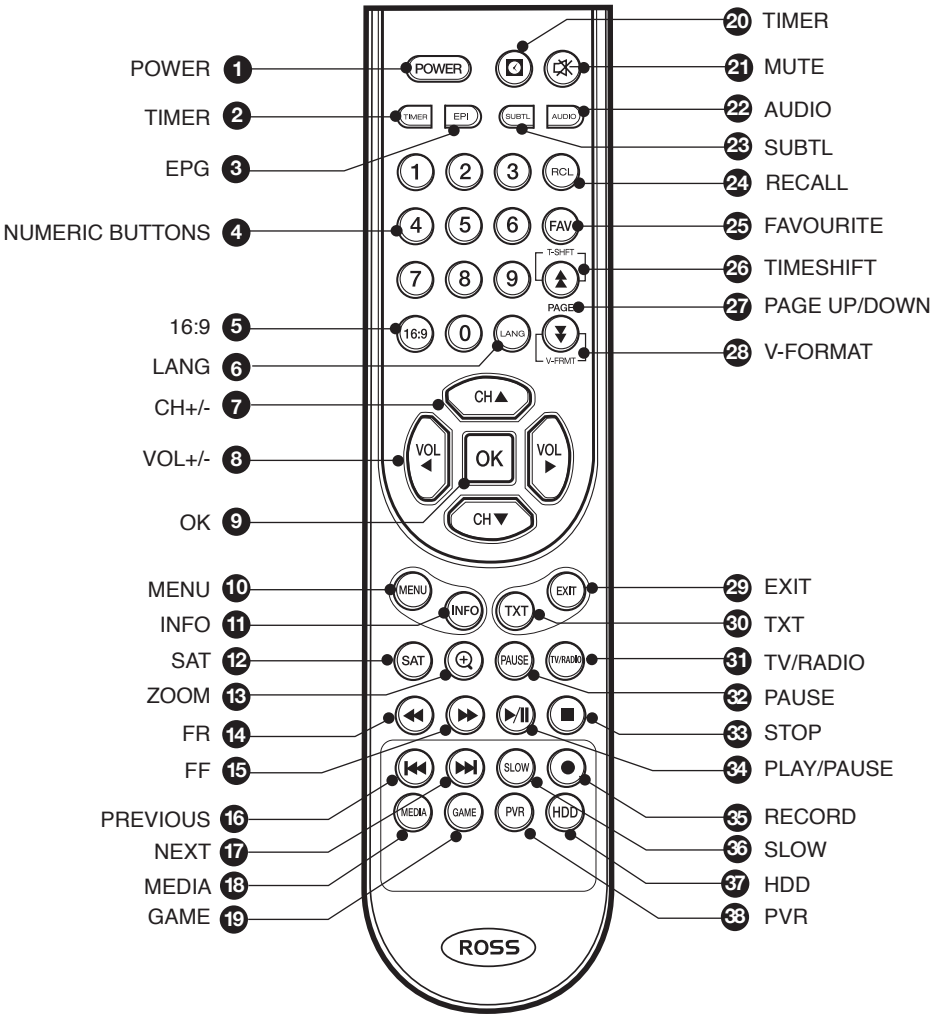
A - Standby Button
B - Menu Button
C - USB Port
D - Volume Down Button
E - Channel Up Button
F - Channel Down Button
G - Volume Up Button

3.2 Rear Panel



A - LNB IN: To connect the input cable from the satellite dish.
B - LNB OUT: To connect to another satellite receiver if required.
C - S/PDIF Socket: Audio output if required to an Audio Amplifier or AV System
D - HDMI Socket: To connect to an HDTV with an HDMI cable for HD (High definition) viewing.
E - USB Socket: : To connect an external USB memory device for recording TV and uploading software
F - TV SCART Socket: To connect to the video/audio (SCART) input of the TV for SD (Standard definition) viewing only.
G - Power cable.

3.3 Remote Control



3.4 Remote Control Functions

Button	Function
1	**POWER:** Turns on the power or switches the unit to standby mode
2	**TIMER:** To select up to 8 timer sequences of your choice.
3	**EPI:** Shows Now and Next EPG for the programme being viewed.
4	**NUMERIC BUTTONS:** Enter a number to select a channel directly or to select the menu options.
5	**16:9:** Adjusts screen format between 16:9 and 4:3 or AUTO.
6	**LANG:** Press to select OSD language preference.
7	**CH +/-:** Up and down select for channels. Also used in menu operations.
8	**VOL +/-:** Volume up/down. Or change pages on the channel list. Also used in menu operations.
9	**OK:** Displays the channel list and selects the item on the menu. When in the menu press OK to save setting and exit.
10	**MENU:** Open the main menu during TV viewing.
11	**INFO:** Displays 'now and next' and satellite and transponder information for the current programme.
12	**SAT:** To display the satellite list or channel list in the viewing mode. In the Antenna Setting or the Transponder menu press SAT to initiate a scan. (Red button to add satellite)
13	**ZOOM:** Press to enter or exit the Zoom mode for close up viewing.
14	**FR:** Press to rewind. (select FR*2, FR*4, FR*8, FR*16, FR32 for different speeds)
15	**FF:** Press to fast forward. (select FF*2, FF*4, FF*8, FF*16, FR32 for different speeds)
16	**PREVIOUS:** Press to choose the previous media file.
17	**NEXT:** Press to choose the next media file.
18	**MEDIA:** Press the button to directly enter USB memory device.
19	**GAME:** Press the button to directly enter game menu
20	**TIMER (Sleep):** Press to enter the power off time menu. Use the CH +/- and VOL +/- keys to set the time duration you want before the receiver goes into standby.
21	**MUTE:** Turns the sound off and then back on with a second press.
22	**AUDIO:** Changes audio modes and between; left, right and stereo.

Button	Function
23	**SUBTL:** Sets broadcast dependent subtitles for the current TV programme. Choose between TTX and DVB formats.
24	**RECALL:** Press to switch to previously watched channel.
25	**FAV:** Select favourite channel list or current channel list in the view mode.
26	**TIMESHIFT:** Press RECORD first then when you want to watch the elapsed portion of your programme press TIMESHIFT and then rewind to the start using the FR function.
27	**PAGE UP/DOWN:** Press to jump one page up or down.
28	**V-FORMAT:** Press to select the video output mode between; 1080I, 720 P and 576P and 480p. When changing video format, there will be a flicker for a few seconds as the format adjusts.
29	**EXIT:** Press to exit and save from current menu.
30	**TXT:** (NOT AVAILABLE ON THIS MODEL).
31	**TV/RADIO:** Switches between TV and Radio channels. (Blue button to delete Satellites).
32	**PAUSE:** Freeze the screen. (Yellow button to edit Satellite).
33	**STOP:** Press to STOP playback when watching a recording, playing back a media file or to stop a recording.
34	**PLAY/PAUSE:** Press to start watching a recording or media file or to pause.
35	**RECORD:** Press to start recording to an external USB Memory Device
36	**SLOW:** (NOT AVAILABLE ON THIS MODEL).
37	**HDD:** (NOT AVAILABLE ON THIS MODEL).
38	**PVR:** To directly enter the folder information of the attached USB memory device.

Please observe the following when using your Remote Control –

- Change the batteries when operation becomes poor or erratic.
- Always use two new batteries, DO NOT mix old and new.
- Dispose of old batteries in an environmentally responsible way.
- DO NOT place spent batteries in a fire or attempt to recharge them.
- If you are not going to use the Remote Control for an extended period then remove the batteries to avoid the risk of leakage.

Satellite Receivers are delicate pieces of digital equipment that performs quite complex functions. Occassionally they can lock up for no apparent reason. If this happens to your receiver, simply unplug the receiver. Then plug receiver back on and re-boot. If problem persists please contact Ross helpline.

4.0 Installation:

Introduction

This manual will help you learn the basic features and operation of your receiver such as installation, channel selection and many other functions of the set top box.

4.1 Satellite Dish Installation

Please refer to the separate documentation **"Satellite Dish Installation Guide"** to install your dish. You will need to assemble, erect and roughly align your dish to your chosen satellite before connecting up and turning on your Receiver.

NOTE: It is recommended that you seek the assistance of a second person when aligning the dish.

4.2 Receiver Installation

4.2.1 Connecting your Receiver

Having completed the assembly and erection of your dish, connect the satellite cable from your dish to the LNB IN terminal of your receiver and your HDMI lead from the rear of your receiver to an available socket on your TV or AV Amplifier. If you are not using an HD compatible TV then you will need to connect to your TV using a SCART lead and optionally the Audio Out to an AV Amplifier. If you are using the HDMI socket then you only need to connect this, as it feeds both high quality audio and video to your TV.

4.2.2 Preparing your Remote Control

Your Remote Control requires 2 x AAA (LR03) batteries to operate (not supplied). Open the cover on the rear of the Remote Control by sliding it downwards and insert two batteries taking care to observe the polarity markings inside the compartment.

4.2.3 TV Format Set-Up

You are now ready to switch on and adjust your dish to complete alignment (for this refer to the separate instructions). Switch on your TV and plug in your Satellite Receiver then proceed as follows:–

- Press the POWER button on your Remote Control or the STANDBY Button on the Front Panel of the Receiver to turn the unit on.
- If a 'Mode not supported' message appears on your TV - You need to alter the Receiver resolution to match the resolution of your TV – The factory default is 720p.
  The Resolution is changed by pressing the 'V Format' button on your remote control. Select between 480p, 576p, 720p and 1080i TV Resolutions as required. 1080i is the highest available resolution for Satellite HD channel reception.

NOTE: The TV may flicker or the picture disappear briefly when changing resolution

- Make sure your TV source is set to receive the signal from your Receiver.

NOTE: If you are using this Receiver in conjunction with a pre-installed dish which is already aligned to ASTRA/EURO1 then after the unit has powered up you will see "NO CHANNEL" being displayed. At this point press the "OK" button and your Channel list should be displayed showing all the programmes that were loaded onto the receiver during manufacture. Your Receiver is now ready to use.

4.2.4 Check Satellite Signal Reception

- Press the Menu Button on the Remote Control and the installation menu will be displayed.
- Press OK to enter the >Installation menu, then Select Antenna Setting and press OK.

- Please note that ASTRA 2A/B/D and Eurobird 1 satellites are labelled 4.ASTRA/EURO1.
- Your Receiver has a large number of the available Satellites already programmed into it to make setting up easier for you. You can see the Satellite name at the top right of the OSD (On-Screen Display).
- Using the VOL+/- Button select the SATELLITE you are aligning your dish to. The default Is already set to 4.ASTRA / EUROBIRD 1 which is the Satellite providing the most common Free to Air English language channels such as BBC 1 ,2, etc..

NOTE: DO NOT change any of the other settings on the Antenna Setting Menu, these have already been programmed into your receiver during manufacture at the Factory.

Pic.1

Pic.2

- Now refer back to your **"Satellite Dish Installation Guide"** to fine tune your signal reception.
- Use the signal level indicators as displayed in the two bars (PIC1= Strength PIC2=Quality) towards the bottom of the Antenna Setting Menu to help fine tune reception (try to obtain better than 50% for both).

4.2.5 Fast Channel Set-Up Astra 2A/B/D/Eurobird 1

The HD Satellite Receiver is pre-programmed with the most popular English Language channels from the Astra2A/B/D and Eurobird 1 Satellites, so there is no need to scan these channels. Simply press the Exit button twice to come out of the >Antenna Setting menu screen, then the Red SAT or OK buttons to go into the channel list. All channels should now be available.

4.2.6 Chosen Satellite Scan

Should you wish to obtain channels from a satellite other than Astra2A/B/D and Eurobird 1, follow 4.2.4 to check your chosen satellite signal reception strength, then press the RED (Scan) button to scan for channels from your chosen satellite.

For full details on available scanning options go to section 5.1.2

- Your receiver will now scan for all available programmes on your selected Satellite. This may take several minutes.
- When the Scan has completed, the Programmes will be saved automatically.
- Press EXIT to leave the Installation Menu
- You can now enjoy all the available Programmes on your chosen Satellite.

5.0 Menu System:

5.1 Installation Menu

In this part of the manual only the basic installation is covered. If you wish to set up your receiver to work with a motorised dish then please refer to SECTION 6, “Advanced Installation”. The MENU provides access to many features and functions which will help to improve your enjoyment of your new product. Press MENU to enter the INSTALLATION Menu, then use the CH-, CH+ keys to select the item you wish to adjust and the VOL-, VOL+ keys to select the new setting. Then press EXIT when you will be prompted to save your changes. Select and press OK to store.

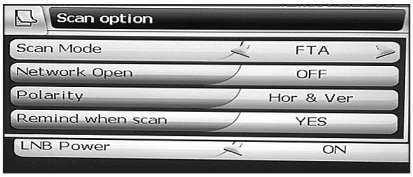
5.1.1 Selecting your Satellite

Use this option within the ANTENNA SETTING menu to select your desired Satellite.

NOTE: If you change the selected Satellite you may need to re-adjust your dish.

When you are satisfied with the signal quality and strength, Press the red “Scan” button This reveals your Scan options drop down menu.

5.1.2 Selecting your SCAN Options



Scan Mode: Select the Scanning mode of your chosen satellite; FTA only, ALL or Scrambled. Select your preference and then press OK to store.

FTA only: To Search for all the Free Channels available with the selected satellite or transponders. (RECOMMENDED SETTING)

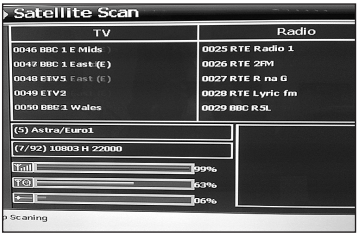
ALL: To Search for all the Free Channels + Scrambled Channels available with the selected Satellite or Transponders.

Scrambled: To Search for all the Scrambled Channels available with the selected Satellite. This option will only be of benefit if your Receiver has a CAM unit fitted. (Not an Option on this version)

NOTE: Changing this setting from, for example, ALL to FTA or FTA+NIT will reduce the number of Programmes stored as it will remove encrypted programmes. This will make the task of editing / sorting programmes easier.

5.1.3 Scanning

Finally Press the OK Button to commence scanning.



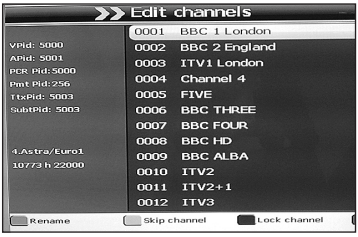
The third bar down indicates progress of the scan and TV and Radio channels will show as they are found. A full scan could take over 10 minutes to complete.

Once scan is completed, press the OK button to save the channels.

5.2 Channel Manager Menu

This section describes how you can manage your programmes, carrying out EDITING, a Channel MOVE or setting FAVOURITES. Press the MENU button and use the CH- button to go to the CHANNEL MANAGER menu then press OK. Make your selection from CHANNEL EDIT, MOVE CHANNEL or SET FAV and press OK to confirm.

5.2.1 TV Channel Edit



Using the “VOL-” and “VOL+” buttons you can select from the options of; RENAME, SKIPCHANNEL, LOCK CHANNEL or DELETE to edit your TV programmes. You can press the “CH-” or “CH+” buttons to select the channel, and press “VOL-” or “VOL+” button to choose the functions which are displayed towards the bottom of the OSD. Press the “OK” button to activate your choice.

- **Rename** - Select the channel you want to rename, and then press the GREEN button “Rename” function. To edit the channel name, select the letters to rename using the “VOL +-” and “CH+_” buttons. Select the save logo at bottom right when you have finished. Then press the “OK” button to save and exit.

- **Skip Channel** – Select the channel you wish to skip and then press the YELLOW button “Skip Channel” function. Then press EXIT and OK to save. If you wish to remove the Skip function from a Channel simply repeat the process described above.

- **Parental Lock** - To prevent the viewing of channels that are not suitable for Children. Select the channel to Lock, then press the RED "Lock Channel" function, a "🔒" symbol will appear next to your choice. Press EXIT and then the OK button. This will lock the selected channel from unauthorised viewing. Pressing the "OK" button one more time before saving, will unlock the channel. When you press exit you will be prompted to confirm and save your choice if you have unlocked a channel by entering your password. The channel will then be unlocked.

NOTE: This feature will only work if the CHANNEL LOCK has been set to YES in the USER SETTINGS / PARENTAL CONTROL Menu.

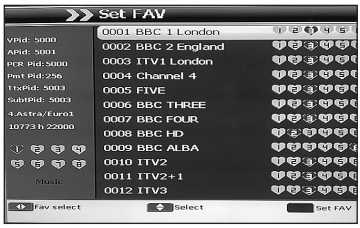
- **Delete** - Select the channel you want to Delete, then press the BLUE "Delete" function button, an "X" symbol will appear next to your choice. Press EXIT and then OK to confirm delete the selected channel from the set top box. Pressing the "OK" button again prior to saving will cancel this operation.

NOTE: Use this feature with CAUTION as the Channel will be permanently deleted and a Factory Default or a Rescan will be required to restore the deleted channel/s.

5.2.2 Move Channel

- **Move** - Select the channel you want to move using the VOL+- buttons, then press the RED "Setting" button, a "▲/▼" will appear next to your choice. Then using the CH+- keys move the channel to your desired new location and press the RED "Setting" button again to execute the move. Press EXIT and then OK to save your change.

5.2.3 Set Favourites

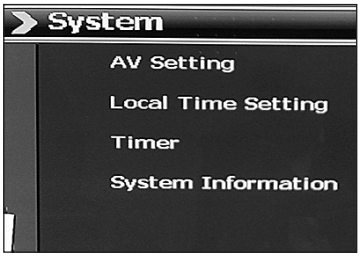


- **Set Favourite** - This feature can be used to set a Channel in one of eight FAVOURITE categories. The choices available to you are as follows:
  1. Music
  2. HD
  3. Entertainment
  4. Lifestyle
  5. Children's
  6. News
  7. Shopping
  8. Films

Using the CH+- buttons select the Channel that you wish to set as a favourite, then using the VOL+- buttons select the FAVOURITE category of your choice from 1-8 as per the list above. Next, press the RED "Set FAV" button. Finally press EXIT and OK to confirm and save your settings.

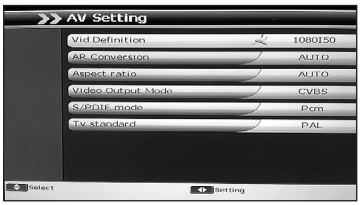
NOTE: The various CHANNEL MANAGER functions are also available when you are in RADIO MODE and are used in an identical way to the TV MODE.

5.3 System Menu



The features in this section enable you to set up options within AV SETTING to match your TV, adjust PRIVATE SETTINGS, set the LOCAL TIME, configure and setup the timers for timed recordings in TIMER and check SYSTEM INFORMATION. Press MENU and then scroll down to the SYSTEM menu using the CH- button and then press OK. You can then use the CH+- keys to select the option of your choice from AV SETTING, LOCAL TIME SETTING, TIMER and SYSTEM INFORMATION, press OK to enter the menu for your chosen option. Use the CH+- buttons to select and the VOL+- to change, then press EXIT and OK to confirm and save your settings.

5.3.1 AV Setting



- **Vid Definition** – This enables you to set the Receiver to match the video resolution of your TV, you can choose from 480i, 480p, 560i, 560p, 720p50Hz, 720p60Hz, 1080i50Hz (RECOMMENDED SETTING FOR HDMI) or1080i60 Hz. Using the VOL+- adjust the resolution to suit your TV. You will be prompted to save your new settings on exiting.

CAUTION: Some TV's will not accept the 1080i 60Hz setting and you may loose the display if you select that option. If this occurs connect to the TV using the SCART lead and adjust the resolution to a compatible mode.

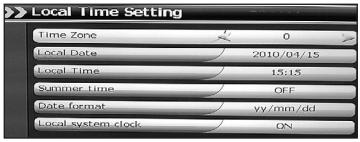
- **AR Conversion:** Using the VOL+- buttons select from AUTO (RECOMMENDED OPTION), PAN SCAN or LETTER BOX. You will be prompted to save your new settings on exiting.
- **Aspect Ratio:** To select between 16:9 (wide screen) and 4:3 TV screen mode or AUTO (RECOMMENDED SETTING) which is the factory default. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.
- **TV Set Screen Ratio:** Sets the Screen mode format to match your TV. Most modern TV's are 16:9 this being also the factory default setting. Use the VOL+- buttons select your preference. You will be prompted to save your new settings on exiting.
- **Video Output Mode:** To choose the Video Output when using the SCART Connector. Select from CVBS (RECOMMENDED SETTING), S_Video, YUV/YCbCr or RGB. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.
- **S/PDIF Output:** To set the Coaxial Audio Output to suit your external Amplifier. Select from PCM, RAW, AC3 or OFF S/PDIF audio format output to AC3, MPEG2 or AUTO. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.
- **TV Standard:** This option is not available.

5.3.2 Private Setting

This feature allows control of various items such as STANDBY MODE, AUTO PMT OPEN, AUTO STANDBY and STANDBY DISPLAY.

- **Standby Mode:** Two Standby modes are available NORMAL and LOW CONSUME. The LOW CONSUME option offers a Standby Power consumption of less than 1W but takes longer to power up out of Standby than the NORMAL setting. Using the VOL+- buttons select your preference. You will be prompted to save your new settings on exiting.
- **Auto PMT Open:** this feature automatically corrects changes to Audio PID information for programmes. Default is YES (RECOMMENDED SETTING).
- **Auto Standby:** Switches the receiver into STANDBY after 3 hours of inactivity. Using the VOL+- buttons select your preference. You will be prompted to save your new settings on exiting. NEEDS CONFIRMATION
- **Standby Display:** Turns the CLOCK DISPLAY on or OFF when in LOW CONSUME setting (See STANDBY MODE).

5.3.3 Local Time Setting



Here you can set TIME, DATE and other related functions on your Receiver.

- **Time Zone:** Select Time Zone. This is an adjustable offset between GMT +12 and -12 hours. The Factory default setting is “0” which equates to GMT. Use the VOL+- buttons to select your preference. Press Exit, then OK to save your new settings.
- **Local Date:** Select Local Date. Press OK, then using the numeric keys set the YEAR, MONTH and DAY. Press Exit, then OK to save your new settings.
- **Local Time:** Select Local Time. Press OK, then using the numeric keys set the HH and MM. Press Exit, then OK to save your new settings.
- **Summer Time:** Select Summer Time. Choose between ON or OFF. ON increments the System Clock by 1 Hour. Use the VOL+- buttons to select your preference. Press Exit, then OK to save your new settings.
- **Date Format:** Using the VOL+- buttons select your preference. You will be prompted to save your new settings on exiting. Use the VOL+- buttons to select your preference. Press Exit, then OK to save your new settings.
- **Local System Clock:** Select Local System Clock. Choose between ON or OFF. When set to OFF (RECOMMENDED SETTING) the time and date is automatically set from the received Satellite signal. Use the VOL+- buttons to select your preference. Press Exit, then OK to save your new settings.

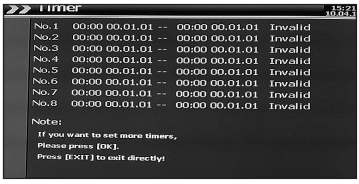
NOTE: If you set the Local System Clock to ON then you will not be able to adjust the LOCAL DATE and LOCAL TIME.

5.3.4 Timer

NOTE: You can press TIMER button to enter directly into the TIMER menu from the remote control.

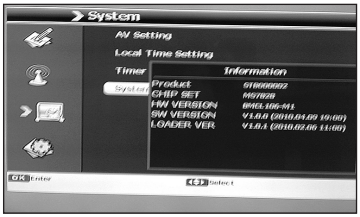
The TIMER Menu provides access to 8 Programmable Timers for you to set to record a programme whilst you are away or to switch on or off on a specific day and at a particular time. Using the VOL+- and CH+-, buttons to set the preferred configuration, press the OK button to set the timer, you can also set the preferred Power On mode for TV or Radio.

- **Timer Number:** Select from Timer 1 to 8. You can set 8 different Timers in total.
- **Timer Enable:** To activate each Timer, if the specific Timer Set is off, no other settings can be made.
- **Timer Control:** There are 3 Timer Control settings:
  Power On: Turns on the Receiver on a day and time that you specify
  Duration: This is used when you wish to operate the Receiver for a specific amount of time, such as when you are making a recording.
  Power Off: This is used where you wish to set an off time for a specific date and time.
- **Timer Cycle:** Use the VOL+- buttons to select One Time, Every Day, Sunday, Every Week as desired
- **Start Time:** Use the numeric keys to enter time and date information as determined by the Timer Cycle setting.
- **Stop Time:** Use the numeric keys to enter time and date information as determined by the Timer Cycle setting.
- **TV Type:** Set to TV or Radio. Your Receiver will then turn on to TV or Radio at the time you have specified.
- **Channel:** Use the VOL+- buttons to select the Programme that you want the Receiver to switch to when the timer activates.
- **Record:** Use the VOL+- buttons to select ON (Record), NO (No Record) or Record & Standby (Records and then switches the receiver into Standby).



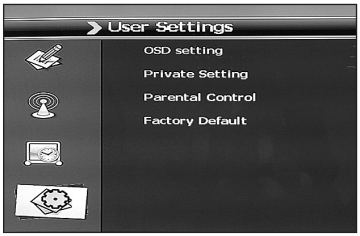
When you have completed your settings press OK, you can then review your timer settings and make sure they are valid (indicated by ENABLED or INVALID in the review screen. Then press EXIT and OK to save your settings.

5.3.5 System Information



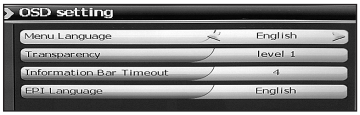
- **System Information:** Press OK to view. Provides details of the Software and Hardware versions installed in your Receiver.

5.4 User Settings



This section allows the setting of OSD settings, PRIVATE SETTINGS, PARENTAL CONTROL preferences and finally FACTORY DEFAULT (resets the whole receiver back to how it left the factory). Press MENU and then VOL+ to enter the USER SETTINGS Menu, then use the CH-, CH+ keys to select the item you wish to adjust and the VOL-, VOL+ to select the new setting.

5.4.1 OSD Setting



In this Menu you can select the preferred MENU LANGUAGE, TRANSPARENCY, INFORMATION BAR TIMEOUT and EPI LANGUAGE.

- **Menu Language:** To select the preferred OSD language. “English” is set as the default language. Options available are ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH and ARABIC. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.

- **Transparency:** This enables you to adjust the opacity of the OSD display. The default value is LEVEL 1. Select between OPAQUE and LEVEL 7 (most transparent). Using the VOL+- buttons select your preference. You will be prompted to save your new settings on exiting.

- **Information Bar Timeout**: To set the timeout period for the Information Bar. The default value is 5 (approximately 5 seconds). Select between 2 and 8 seconds. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.

5.4.2 Parental Control

To prevent unauthorised access of a range of features on your set top box or to selected channels. Areas you can restrict access to are – INSTALLATION LOCK, CHANNEL MANAGER LOCK, CHANNEL LOCK, MENU LOCK, RECEIVER LOCK and SYSTEM SETTING LOCK.

You can also change the Parental Control Password to your Receiver (The Factory Default Password is: 0000). Before you can access any of these features you will be prompted to enter the Password.

- **Installation Lock:** To lock the installation menu to prevent unauthorised adjustment of the Installation. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.

- **Channel Edit Lock:** To lock the Channel Edit menu to prevent unauthorised adjustment of Channel settings. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.

- **Channel Lock:** To lock channels from viewing which are not suitable for children. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.

- **Menu Lock:** To lock the menu to prevent unauthorised access to the menu. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.

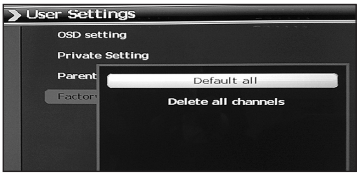
- **Receiver Lock:** To lock the receiver to prevent from unauthorised viewing of ALL channels. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.

- **System Setting Lock:** To lock the System Setting menu to prevent unauthorised adjustment of System Settings. Use the VOL+- buttons to select your preference. You will be prompted to save your new settings on exiting.

- **Change Password:** Press OK to bring up the pop-up menu, input the new password using the numeric keys, and then repeat again to verify the new password. Press EXIT to leave the menu.

NOTE: If you change the password REMEMBER to WRITE DOWN the NEW PASSWORD and keep it safe.

5.4.3 Factory Default



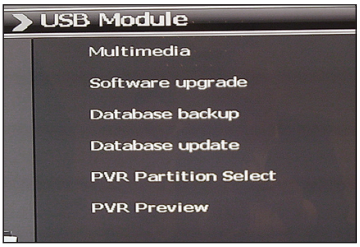
This enables the User to return the receiver to the settings that were made in the Factory. It is useful if some changes that you have made have stopped your Receiver from working properly. There are two options in this menu - DEFAULT ALL and DELETE ALL CHANNELS. Press OK to access these two choices.

- **Default All:** This provides the full FACTORY DEFAULT reset. Press OK, you will then be prompted to enter the PASSWORD (this is the same as the Parental Control password) and then finally prompted to confirm that you wish to carry out the reset operation. Press CANCEL if you have changed your mind or OK to confirm.

- **Delete All Channels:** Press the CH- button to select DELETE ALL CHANNELS, Press OK, you will then be prompted to enter the PASSWORD (this is the same as the Parental Control password) and then finally prompted to confirm that you wish to carry out the deletion operation. Press CANCEL if you have changed your mind or OK to confirm.

NOTE: If you carry out a DELETE ALL CHANNELS you will need to perform a DEFAULT ALL afterwards in order to restore your preloaded programmes.

5.5 USB Module

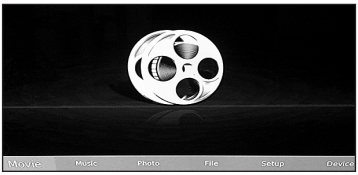


A USB Device can be connected to either the front mounted USB Port located on the front of your Receiver or to the second Port on the rear of the unit. Compatible devices are USB Memory Sticks* and most types of USB HDD* devices.

You can use the USB device to: play files, play games, record programmes and update the Receiver software through the USB port. Press MENU and then using the CH- button scroll down to USB MODULE and press OK. Available functions are MULTIMEDIA, SOFTWARE UPGRADE, DATABASE BACKUP, DATABASE UPDATE, PVR PARTITION SELECT and PVR PREVIEW. Use the CH- button to select your desired function and then press OK.

Installation Tip: Why not permanently install an external hard drive to the rear USB port as your main drive for recording TV programmes whilst using the front USB port to play media from your USB stick. The front USB port automatically overrides the rear one when you plug a USB stick in!

5.5.1 Multimedia



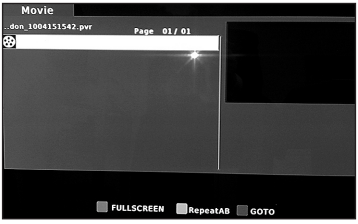
NOTE: You can access this feature directly by pressing the MEDIA button on the remote Control.

This feature enables you to playback a variety of music and video files for your enjoyment. When you have entered the MULTIMEDIA function a screen will be displayed as shown with a number of options as follows:

- **Movie** – To playback MPEG1/4 and AVI Videos
- **Music** – Plays back MP3 music files
- **Photo** – Plays both JPEG and Kodak image files
- **File** – Provides quick access to files on a selected device
- **Setup** – Provides access to Menus enabling customized settings
- **Device** – Enables you to select a device or a partition within a device

- **Device:** This function is described first as in order to play back a specific file it is necessary to select the device the file is on and / or the partition that it is in. Use the VOL+- buttons to select DEVICE. Press OK. A list of attached devices will then be shown. If you have a device connected to the FRONT USB then this will always be the first in the list. Use the CH+- buttons to select the device where the file you want to access is stored then press OK. That device or partition will then be selected.

NOTE: This Receiver is only compatible with FAT32 or FAT16 formatted memory devices.



- **Movie:** Use the VOL+- buttons to select MOVIE. Press OK. A list of compatible music files will be shown. Use the CH+- buttons to select the file you wish to play and press OK. Press the RED button to display FULL SCREEN. All the PLAY controls can be used, note that the PREVIOUS and NEXT buttons will move you to the previous or next recordings within a folder. You can also use the GOTO command by pressing the BLUE button and then entering the time you wish to jump to in the pop up counter. When you have entered the time as “00:00:00” format press OK to jump to your chosen point in the file. The REPEAT A-B function only works in full screen playback. Press the GREEN (Repeat AB) button to set the “A” start point, press the GREEN (Repeat AB) button when you have reached the “B” stop point you desire. The loop will then replay repeatedly until you press the GREEN (Repeat AB) button for a third time.

- **Music:** Use the VOL+- buttons to select MUSIC. Press OK. A list of compatible video files will be shown. Use the CH+- buttons to select the file you wish to play and press OK. All the PLAY controls can be used as normal, i.e., FF, FR, NEXT TRACK, PREVIOUS TRACK etc. You can also use the GOTO command by pressing the BLUE button and then entering the time you wish to jump to in the pop up counter. When you have entered the time as “00:00:00” format press OK to jump to your chosen point in the file.

- **Photo:** Use the VOL+- buttons to select PHOTO. Press OK. A list of compatible image files will be shown. If you wish to see all the images as a slide show then press the PLAY / PAUSE button to start the show (to alter the transition time see SETUP below) If you wish to view the images one by one then use the CH+- buttons to select the file you wish to play and press OK to view full screen. Press the NEXT and PREVIOUS buttons to move backwards and forwards through the available images.
- **File:** This feature provides fast access to the files on your selected device as it shows all file types. Use the VOL+- buttons to select FILE and press OK. You can then use the CH+- buttons to select your desired file and then press OK. The receiver will then playback the file which can be controlled as described above depending on what type of file it is.
- **Setup:** This feature enables the setting of various parameters within SYSTEM, MOVIE and PHOTO. Press the VOL+- buttons to select SETUP and then the VOL+- to enter your choice of setup menu, then press OK.
- **System:** It should **not** be necessary to change any of the settings in this section as they will have already have been adjusted when you setup the basic receiver to your preferences. **Care should be taken when making any changes in this section.**
- **Movie:** In this section you can adjust:
    - **Subtitle Specific;** Size – BIG, NORMAL, SMALL.
    - **Subtitle BG;** Alter the subtitle box background colour – TRANSPARENT, GRAY, YELLOW GREEN, WHITE
    - **Subtitle Font Colour;** White, Blue, Green, Yellow
    - **Resume Play:** ON or OFF

Use the CH+- buttons to select and the VOL+- to select your preference.
Press EXIT to save.

- **Photo:** In this setup menu you can adjust the transition time between slides when viewing a photo slide show. Use the VOL+- buttons to select the transition time between 2, 3, 5 and 7 seconds. Press EXIT to save your choice.

5.5.2 Software Upgrade

This feature is not currently available but may be utilised in future software versions. To upgrade the Software please refer to Section “7.0 Software Update”.

5.5.3 Database Backup

This feature enables a back up of all your Channel Information to be taken which can then be used to restore the information should it become lost or corrupted. The Database Backup File is always stored in the first partition of the USB Device connected to the rear USB Port in a folder named “Database”. Press CH+- to select DATABASE BACKUP then press OK. The back up file will then be created automatically.

5.5.4 Database Update

When you have created a Database Backup file then this feature can be used to update your Channel Information with your backup data. Press CH+- to select DATABASE UPDATE then press OK. You will see the top level Directory highlighted. Press OK, you will now see the folder DATABASE highlighted, press OK. Now, using the CH+- buttons select the most recent back up file that you created, the format of the file will be "Dbase_20xxxxxxxxxx.bin where the "x" represents the date of the file. Press OK and your database will be automatically updated.

5.5.5 PVR Partition Select

- **Set as PVR Partition:** With this utility you can select the partition that you wish to be the default location for the PVRRECORD folder and also if desired format that partition. Press CH+- to select PVR PARTITION SELECT and then press OK. Using the CH+- buttons select the PARTITION you want to allocate for the PVRRECORD folder, then press OK, the selected partition will now be where your PVRRECORD folder will be located.
- **Format:** If you wish you can also format the partition you are going to use as the location for your PVRRECORD folder. WARNING, USE WITH CAUTION – This will delete all data from that partition. With your selected partition highlighted press the BLUE (Format Disk) button. Your disk will now have been formatted.

5.5.6 PVR Preview

NOTE: You can access this feature directly by pressing the PVR button on the remote Control.

This facility enables you to quickly select and preview any recordings that you have made. You can also watch FULL SCREEN or DELETE any unwanted recordings.

- **PVR Preview:** Press CH+- to select PVR PREVIEW. Using the CH+- buttons select the disk or partition where you store your PVRRECORD folder. Press OK. You should now see the PVRRECORD folder, select and press OK. A list of all recordings will be shown and you can now easily scroll down to the recording you want to preview and press OK. The recording will start to play in the small window.
- **Full Screen:** if you wish to watch the recording in FULL SCREEN simply press the RED (Full Screen) button.
- **Delete:** Should you wish to DELETE any of the recordings that you have made then proceed as in PVR PREVIEW but instead of pressing OK after selecting the relevant file press the BLUE (Delete) button. You will then be asked to confirm before the recording is deleted.

5.6 Games

For your entertainment and enjoyment, this Receiver has two pre-loaded classic games, TETRIS and SNAKE, access directly by pressing the GAME button on the remote Control.

Press the MENU button and then using the CH+- scroll down to the GAMES menu. Press OK, press OK again. The two choices of GAMES will then be displayed in a pop up window.

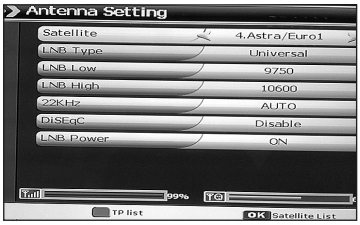
6.0 Advanced Installation:

This section is aimed at the more experienced Satellite Receiver (Set Top Box) user. Specifically, it describes how to add additional Satellites that are not present in the Factory pre-loaded list and how to set up your unit to work with a Motorised Dish.

Press MENU to enter the INSTALLATION Menu then use the CH+- keys to select the item you wish to adjust and the VOL+- to select the new setting. Then press EXIT and OK to store.

6.1 Antenna Setting

This section enables you to adjust the Receiver to match your LNB and set other parameters for your installation.



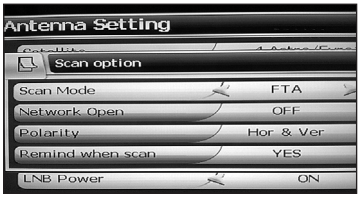
- **Satellite:** Select the Satellite from the list of 10 preloaded Satellites.
- **LNB Type:** Select the type of LNB to be used with your satellite dish. Options are UNIVERSAL, C BAND or USER.
- **LNB Low Frequency / LNB High Frequency:** Input the LNB LOW and LNB HIGH FREQUENCY for your LNB using the numeric keys if required.

- **22kHz Tone Control:** If the LNB frequency is not Universal, the 22 KHz should be set to “OFF”. Other choices are ON and AUTO.
- **DiSEqC Control:** This receiver supports the following motorised dish settings:

DISABLE **DiSEqC 1.0**
DiSEqC 1.0/1.1 **TONE A**
TONE B **DiSEqC 1.2**
USALS

Refer to your Motorised Dish instruction booklet for the settings appropriate to your dish.

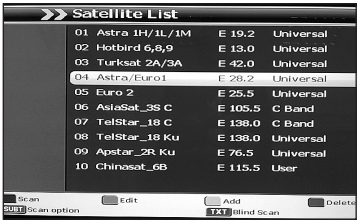
- **LNB Power:** This setting turns ON or OFF the internal power supply from the Receiver to the LNB, a maximum of 500mA at 13-18V can be supplied.
- **SUBTL Button - Scan Options:** Press the SUBTL button to enter Scan Option menu:



- **Scan Mode:** Select the desired Scanning mode for the satellite; FTA only, ALL or SCRAMBLED
- **FTA only:** To Search for all the Free Channels available with the selected satellite or transponders.

- **ALL:** To Search for all the Free Channels + Scrambled Channels available with the selected Satellite orTransponders.
- **Scrambled:** To Search for all the Scrambled Channels available with the selected Satellite. This option will only be of benefit if your Receiver has a CAM unit fitted. (Not an Option on this version)
- **Network Open:** This setting when set to ON enables the receiver during a scan to search for all transponders available on the Satellite from the Network Providers. When set to OFF it searches just the preloaded transponders.
- **Polarity:** Select between HORIZONTAL, VERTICAL and HOR & VER.
- **Scan Reminder:** When set to YES this brings up the SCAN OPTION menu when the RED scan button is pressed, you then need to press EXIT to start the scan. When set to NO pressing the RED button immediately initiates the SCAN.
- **RED Button - SCAN**: This button is used to activate the SCAN. Note however if SCAN REMINDER in SCAN OPTIONS is set to NO then to initiate the scan you will need to press OK after making any changes to the SCAN OPTIONS that you might require.
- **GREEN Button - TP List:** This provides a listing of all transponders available on your chosen Satellite.
- **OK Button – Satellite List:** This lists all the pre-programmed Satellites

6.2 Satellite List

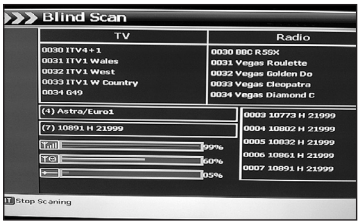

Satellite List
01 Astra 1H/1L/1M E 19.2 Universal
02 Hotbird 6,8,9 E 13.0 Universal
03 Turksat 2A/3A E 42.0 Universal
04 Astra/Euro1 E 28.2 Universal
05 Euro 2 E 25.5 Universal
06 AsiaSat_3S C E 105.5 C Band
07 TelStar_18 C E 138.0 C Band
08 TelStar_18 Ku E 138.0 Universal
09 Apstar_2R Ku E 76.5 Universal
10 Chinasat_6B E 115.5 User
Scan
Edit
Add
Delete
SUB Scan option
TXT Blind Scan

This feature provides a listing of all the stored Satellites and enables the user to SCAN, EDIT, ADD or DELETE them. In addition there are another two soft keys providing access to SCAN OPTIONS and a BLIND SCAN FUNCTION. Using the CH+- buttons scroll down to SATELLITE LIST and press OK.

- **RED Button - Scan:** Use the CH+- button to select the Satellite you wish to scan. Press the RED Button to initiate a SCAN on the selected Satellite.
- **GREEN Button – Edit:** Pressing the GREEN button enables the following parameters of the selected Satellite to be edited: SAT NAME, LONGITUDE, EAST/WEST, LNB TYPE, LNB LOW, LNB HIGH, DiSEqC. Use the numeric keys and the VOL+- to edit. Then press EXIT and OK to save your changes.

- **YELLOW Button – Add:** Add a new Satellite. Using the CH+-, VOL+- and the numeric keys edit the SAT NAME, LONGITUDE, EAST WEST, LNB TYPE, LNB LOW, LNB HIGH, DiSEqC settings. Then press EXIT and OK to save your changes.

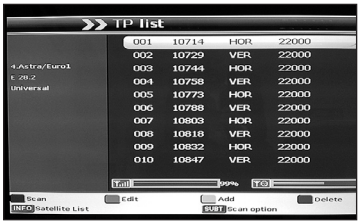
- **BLUE Button – Delete:** Use the CH+- keys to select the Satellite you wish to delete the press the BLUE button and OK to confirm. WARNING,USE WITH CAUTION – The Satellite will be permanently deleted.
- **SUBTL Button - Scan Option:** Refer to section 6.1 for SCAN OPTION settings.



- **TXT Button - Blind Scan:** Press the TXT button to initiate a BLIND SCAN on the selected Satellite. This will find and store all available transponders and Programmes available.

This is great for finding new channels from existing satellites and ones that have changed their settings.

6.3 Transponder List



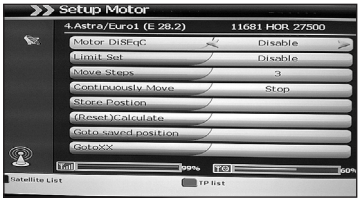
This feature lists all the Transponders on the currently selected Satellite and enables the user to SCAN, EDIT, ADD or DELETE them. In addition there are another two soft keys providing access to the SATELLITE LIST and SCAN OPTIONS. Using the CH+- buttons scroll down to TRANSPONDER LIST and press OK.

- **RED Button - Scan:** Use the CH+- button to select the Transponder you wish to scan. Press the RED Button to initiate a SCAN on the selected Satellite.
- **GREEN Button – Edit:** Pressing the GREEN button enables the following parameters of the selected Transponder to be edited; FREQUENCY, SYMBOL RATE, POLARITY, N-PID and T-PID. Use the numeric keys and the VOL+- to edit. Then press EXIT and OK to save your changes.
- **YELLOW Button – Add:** : Add a new Transponder. Using the CH+-, VOL+- and the numeric keys edit the FREQUENCY, SYMBOL RATE, POLARITY, N-PID and T-PID settings. Then press EXIT and OK to save your changes.
- **BLUE Button – Delete:** Use the CH+- keys to select the Transponder you wish to delete then press the BLUE button and OK to confirm. **WARNING, USE WITH CAUTION – The Transponder will be permanently deleted.**
- **SUBTL Button - Scan Option:** Refer to section 6.1 for SCAN OPTION settings.
- **INFO Button - Satellite List:** Lists all the Satellites. From here you can select a different satellite and view the associated Transponders.

6.4 Motor Setup (DiSEqC)

NOTE: In order to make adjustments in the SETUP MOTOR section of the menu the DiSEqC setting in the ANTENNA SETTING menu corresponding to the relevant Satellite needs to be set to match the version of DiSEqC that your system is using.

Using the CH+- buttons scroll down to the SETUP MOTOR menu and press OK.



- **Motor DiSEqC:** Set the DiSEqC setting to match with that for the relevant Satellite in the ANTENNA SETTING menu
- **Limit Set:** Set the motor limit to EAST, WEST or DISABLE
- **Move Steps:** Adjust the incremental steps between EAST and WEST using the VOL+- buttons, select the step size between 3,6,9,12 and 15 using the OK button. Move the dish observing the signal strength bars to determine best position.
- **Continuously Move:** Move the Motor continuously EAST or WEST using the VOL+- buttons
- **Store Position:** Store a current location. Press OK to store.
- **(Reset) Calculate:** Reset the motor position. Press OK to execute.
- **Goto Saved Position:** Press OK to go to a previously saved position (See Store Position above)
- **Goto XX:** Moves the dish to the reference position.

NOTE: Use the signal strength and quality bars at the bottom of the screen to judge the best position for the dish.

6.5 USALS (DiSEqC) Set-Up

This Menu is used to setup the USALS system on your set top box to match with your motorised dish system. If you have a USALS motorised system, you must set your position (latitude and longitude) in order to calculate all motor positions for viewable satellites. You should refer to the motorised dish manual to obtain more information. Using the CH+- buttons scroll down to the USALS SETUP menu and press OK.

- **Latitude:** Enter your Latitude using the numerical keys
- **North / South:** Default is NORTH for UK
- **Longitude:** Enter your Longitude using the numerical keys
- **East / West:** Select EAST / WEST depending on the Satellite locations
- **GotoXX:** Moves the dish to the reference position.

Enter the required information as above and then press OK to SAVE and EXIT back to the INSTALLATION MENU. Please refer to your Motorised Dish Installation Manual for further information.

7.0 Software Update:

NOTE: This function MUST be used with EXTREME CAUTION. ONLY Software provided by the Ross Service Centre or downloaded from the Ross.co.uk Website can be used. Use of other Software may damage your device and invalidate your warranty. During the UPDATE process DO NOT press any buttons or switch the unit off.

Watch out for regular software updates at Ross.co.uk.

- **Procedure:**

1. Load the new software into an empty USB Memory stick. It must be the extracted file, i.e., xxxxxxx.bin

2. Press the STANDBY button on the front of the Receiver to put the unit into standby mode. Insert the USB device in the rear USB Port.

3. Whilst pressing the CH+ button on the front of the Receiver switch the Receiver back on using the STANDBY button.

4. A pop up window will appear on your TV advising that the software is being updated and displaying a progress bar.

5. On completion you will be asked to restart the receiver. Switch into STANDBY and remove the Mains Plug.

6. Power up the Receiver again and then press the MENU button. Using the CH+- buttons scroll to the USER SETTINGS menu and press OK. Using the CH+- buttons scroll down to FACTORY DEFAULT option and press OK. Select DEFAULT ALL and press OK. You will now be asked to enter your password (Default is 0000) and then confirm that you wish to proceed by pressing OK. The Receiver will now be reset and ready to use.

8.0 Trouble Shooting:

If you have problems with the set top box, please consult the table below because it may be a simple problem that can be solved at home.

Problem	Possible Cause	Possible Remedy
Power turned on, but no display on screen or lights on the set top box.	Plug not inserted correctly.	Remove plug and reinsert into the socket.
There is no sound present on an HD TV Channel	Audio option may need re-setting	Press the "AUDIO" button and check if it is set to the AC3 option. If so, select the MPEG1/2 option and press OK, then press the AUDIO button again and select AC3. Press OK and your sound should be present
The set top box has power but cannot find any channels or shows any signal strength.	Is the Satellite dish installed correctly.	Reinstall the dish and calibrate it.
	LNB input is not connected correctly.	Reconnect the cable to the LNB and receiver.
	Bad weather.	Attempt again later during better weather.
	Incorrect setup of settings.	Set the proper parameters of received programme in the system settings menu.
The set top box has power but on TV shows "No signal" or cannot switch to the input the set top box is connected to.	Bad connection between TV and the set top box.	Check all the connection cables.
	Incompatible video format.	Press the V-format button on the remote control. To cycle between the different formats.
Video stops/disappears.	Changed V-format.	The set top box needs time to change output format, wait for a few seconds and video and audio will return.
TV program plays a strange sound.	Channel may contain more than one audio track or languages.	User can use the "Audio" button on the remote control to select the correct audio track or audio languages for the TV program.

Tips: If you refer to this troubleshooting guide, but find no solution for the problem you encountered. Please contact the Ross Helpline. **DO NOT OPEN THE SET TOP BOX.**

WARNING:
Problems can be caused by the use of unofficial software. The use of software versions other than dealers or distributors official software will void the manufacturer's warranty. It is advised that only the formal software released from dealers or distributors should be used.

9.0 Specification

1.Tuner & Modulator	
Input Frequency:	950MHz to 2150MHz
Input Impendence:	75 ohms
Input Level:	-65dBm to-25dBm
Input socked:	F type connector
LNB Power & Polarization:	Horizontal:+18V; Vertical: +13V;
Current: (short circuit protection)	Max 500mA;
Waveform:	QPSK S2
Symbol rate:	2~45MS/s
Outer decoder:	RS(204,188,8)
Code rate:	1/2,2/3,3/4,5/6,7/8

2.MPEG2 Decoding	
Transport Stream & Profile Level:	MPEG-4/H.264,MPEG-2 MP@ML MP@HL, MPEG-4/AVC
Aspect ratio: Video	4:3/16:9
Format:	480i/480p/576i/576p/720p/1080i;
Audio Decoding:	MPEG-1,MPEG-2(Layer I/II)&AC-3 (Optional)&E-AC-3(Optional)& HE-AAC(Level 2&Level 4)
Sampling Frequency:	32K/44.1K/48K

3. Connector	
SCART:	TV(CVBS,RGB)
HDMI:	HD Video/Audio Output
USB:	2.0 Host
S/PDIF:	Digital audio output

4. Power Supply	
Input Voltage:	170-240V~, 50Hz.
Power Consumption:	Max.25W
Weight:	Appr. 1.5KG
Operating Temperature:	0^0C – 40^0C
StorageTemperature:	-40^0C - 65^0C

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For further product information please go to: **www.ross.co.uk**